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A.N.A.R.T.S. News Bulletin 1408 for 6th of August 2006

Selected items from this cast are also transmitted by
the Westlakes Amateur Radio Club. Time of transmission is
1930 local time on Tuesdays and the frequency is 146.775MHZ.

ANARTS now has a web site at www.anarts.com.au
where information about the society can be found, as well as
the weekly broadcast texts.

Views expressed in this news bulletin are not necessarily
those of the Broadcast Officer, the Relay Officers, or of
the Society.

Items in this broadcast include
1. Cols column
2. IPS REPORT
3. VK2SG RTTY DX report
4. ARRL DX BULLETIN
5 425 DX BULLETIN
6. Anarts Information

Col's Column

Propagation of Radio Waves.

Propagation of VHF Frequency Radio Waves.

The 30 to 300Mhz VHF Band is well suited for short distance communications
of all kinds, and is extensively used by fixed, mobile, broadcasting and
navigation services, including our own Amateur Radio Service.

This band is different from the lower frequency bands in that is cannot
be relied upon for transmission over great distances, but rather has
a 'Line of Sight' characteristic. However, there are numerous occasions,
particularly at the lower end of the band. where long distance trans
-missions have been used, but more often, these transmissions constitute
a potential source of interference to other services using the same
frequency at a distance normally out of range of the transmission.
In the case of Amateur Radio, this can be used to our advantage.

Cases of transmission to great distances decrease rapidly with an increase
of frequency and become negligible above about 80Mhz.

The primary propagation characteristic of this band is that, except for
some conditions of the ionosphere, frequencies within the band are not
refracted by the ionospheric layers, but pass through the layers, even when
the angle of incidence approaches the greatest value than can be obtained
because of the shape of the Earth. At the same time, the ground wave of
these frequencies is very rapidly attenuated.

It must be pointed out, that there is no hard and fast boundary between frequencies which will be refracted and those which will not by the ionospheric layers. In actual fact, frequencies as great as about 25Mhz in the daytime, and about 10-20Mhz at night, depending on the angle of incidence, will pass through the layers and will not be returned to Earth.

The use of frequencies in the VHF band requires the waves to pass through the space above the earth from an elevated transmitting antenna to an elevated receiving antenna. When the distance between the transmitter and the receiver is small enough for the Earth to be regarded as 'Flat', the waves may reach the receiver either by the direct path or by an indirect path involving reflection from the ground. A diagram showing this will be placed on ANARTS Web site www.anarts.com this Sunday

In this case the two waves tend to cancel each other at the receiver, providing the distance between the antennae is much greater than the antenna heights. In this condition the Earth reflection is almost at grazing incidence, and because of the phase reversal which takes place whenever radio waves are reflected, irrespective of frequency. the direct and indirect waves arrive at the receiving point approximately 180 degrees out of phase, with the consequent tendency to cancel each other out. However this cancellation is not complete since the indirect path is always slightly longer than the direct path.

We continue next week with VHF propagation and the effect of the Earth's curvature.

de Col VK2CTD

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IPS Weekly Solar and Geophysical Report 28th Jul/3rd Aug

SUMMARY

Date	28	29	30	31	01	02	03	
10cm flux	73	73	74	72	73	72	71	
AFr index	26	3	3	11	9	7	5	est
Aaus index	14	2	3	11	12	6	4	est
T index	32	22	10	17	18	18	20	

Solar flare activity was very low all week.

Geomagnetic activity observed for the Australian Region was quiet to active on 28th quiet on 29th/30th 2/3rd quiet to unsettled with isolated active periods on 31st and quiet to active with minor storm levels at Hobart on 1st.

Southern Australian Ionospheric F2 critical frequencies were near predicted to 55 percent enhanced on 28th near predicted to 15 percent enhanced on 29th near predicted on 30th/1st and 3rd and mostly near predicted on 2nd.

Forecast for 4/10th Aug

Solar activity should be low.

Geomagnetic activity should see quiet to unsettled conditions.

Frequencies should be near predicted monthly values.

courtesy of the IPS Radio and Space Services

summary by Pat VK2JPA ANARTS Broadcast Officer

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VK2SG RTTY DX NOTES WEEK ENDING 3 AUG 06

This week our information came from AA5AU GU0SUP I5FLN UT5RP
and the Central Europe clusternode DB0SPC. Thank you all.

Friday 28
0037-14083 OA4CN
0046-14080 YU6AO
0058-14087 OX3PG
0114-14085 HK4QMH
0750-14081 UN3P
0800-14081 YU6AO
1004-18103 VQ9LA
1044-14088 VR2XLN
1100-14083 9K2HN
1357-14085 VK2IT
1420-14080 YU6AO
1458-14083 5Z4DZ
1625-14087 E20WXA
1626-14082 3A2MW
1634-14088 4K5D
1706-14093 SV9CVY
1723-14084 TA1EE
2037-14086 5F50KD
2037-14087 SV9/SV1AVD
2047-14087 HZ1IK
2052-14087 9G1UW via DL8UP
2141-14081 KP4AH
2213-14085 KC2NMZ/C6A
2229-14081 P29ZAD

Saturday 29
0029-14080 YU6AO
0344-14087 D7C
0431-14082 EK8SK
0726-21087 YU6AO
0753-14085 4O3T
0940-21083 E21YDP/P
1124-28080 YU6AO
1204-21091 PY7ZZ
1307-14090 JR3IXB/VP9
1332-14080 YU6AO
1506-14087 9M2MT
1545-14082 4L8A
1617-14081 9G1UW
1622-14085 SV9/SV1AVD
1641-14083 4O3T
1839-14086 IS0LFZ
1841-14091 GU3UOQ

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1954-14088 6Y5WJ
1959-14089 TG9AKH
2152-14086 5F50KD
2204-14080 YU6AO
2208-10132 4O3T
2224--7038 5F50KD
2224-10136 YV5YMA
2319-14085 9Z4FZ
2325-14082 HC2NGF


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Sunday 30
0021-14086 5F50KD
0029-14082 4O3T
0037-14080 YU6AO
0105-14088 SV9CVY
0255-14082 EK6TA
0315-14084 UN5JR
0350--7037 YU6AO
0449-14083 P29ZAD
0615-21088 YU6AO
0630-14084 4O3T
0731-18102 5Z4DZ
0759-18104 4O3T
0913-28080 YU6AO
0917-14086 5F50KD
1034-14083 9Z4FZ
1041-14082 EK8SK
1138-14089 JR3IXB/VP9
1306-14087 VR2XMT
1413-14086 VQ9LA
1424-14088 4O3T
1451-14083 OX3DB
1452-14080 CU3CC
1458-14085 TF3GC
1502-10138 4O3T
1551-14083 TA3J/0
1604-14085 LX1EA
1621-14086 IS0BWM
1623-14087 ZC4JP
1726-14084 5F50KD
1726-14083 D7C
1800-14083 D7C
1808-14084 9G1UW
1949-18105 9Z4FZ
2011-18102 3A2MW
2046-14088 KC2NMZ/C6A
2103-14081 PT7AZ
2103-14081 9Z4FZ
2153-14088 6Y5WJ
2200-14080 YU6AO
2200-18101 5W0DP
2313-18100 HI3TEJ
2337-18102 YV5KG

Monday 31
0004-18101 5WODP
0132--7040 VQ9LA
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0248-21081 5W0DP
1001-28088 YU6AO
1154-18103 VQ9LA
1323-18103 4O3T
1512-14087 4K5D
1522-14086 TF3GC
1636-21088 YU6AO
1800-14088 6Y5WJ
1821-14082 EK6TA
1824-14087 5F50KD
1825--7037 YU6AO
1834-14080 OM5TX
1913-14082 4Z5NF
2102-14086 HK4QMH
2148-14088 5W0DP
2247-21083 9Z4FZ
2322-21083 KP4ED



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Tuesday 1
0036--7035 YU6AO
0341-14087 5W0DP
0432--7040 9Z4FZ
0649-14082 EK8SK
0821--7034 5W0DP
1129--7032 5W0DP
1323-18101 YU6DZ
1407-14083 UN8PIM
1438-14084 E20WXA
1534-14082 TA3EV
1651-14084 OX3DB
1711-14080 4O3T
1737-14084 ST2T
1756-14088 Z31MM
1824-14089 PY7ZZ
1850-14086 TF/DL1DA
1948-14087 6Y5WJ
2008-10144 9Z4FZ
2023-14085 ZP8AE
2040-14081 9Z4FZ
2059-14088 9G1UW
2109-14082 EK6TA
2129-14080 LX2DA
2253-14084 TF3GC

Wednesday 2
0225-14084 KH8SI new DXCC Swains Isl.
0635--7035 YU6AO
1025-14085 LX1DA
1120-14080 YU6AO
1208-14085 BD3APX
1335-14085 YB0EIN
1459-18100 YU6AO
1625-14088 9Z4FZ
1905-10138 4O3T
1917-14085 IS0AFM
1920-14085 ER3MM
1950-14082 FM5AA
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2016-14085 GU0SUP
2246-14085 9Z4FZ
2249 14088 EA6BH

Thursday 3
0042-14087 CE1RQB
0113-14088 6Y5WJ
0151-14086 XE1ZVO
0204--7043 9Z4FZ
0340--7035 YU6AO
0341--7043 LU3HY
0403--7043 YV5ZV
0420--7042 ZL3RG
0421--7041 YV4BCD
0645-14088 KH6ZM
0952-14086 EF8SRT QSL IZ8EDJ
1150-18104 VQ9LA
1254-10140 4O3T
1450-14080 YU6AO
1721-14082 UN7PBY
1724-14086 E20KIR
1735--7035 YU6AO
1917-14083 9Z4FZ
1925-14082 KP4ED
2007-14088 6Y5WJ
2102-14087 9G1UW
2104-10139 4O3T
2115-14092 CX4SS
2129-14082 WP3PK
2156-14082 LU3HZG
2300-14082 OX3PG
2324-14080 YU6AO

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Notes of Interest

BERMUDA - VP9: Look for VP9/K3TRM on 160m to 6m using SSB RTTY and CW from
Bermuda Aug 3-8. QSL via home call.

MONTENEGRO - YU6: YU6AO YU6DZ and 4O3T are all active from this new DXCC entity.

The VK2SG RTTY DX NOTES are distributed every week via the Winlink network
and are also available on the Internet at URL http://mailman.qth.net/mailman/listinfo/vk2sg-rtty.
For next weeks bulletin send your bandpass and notes of interest to Don AA5AU
aa5au at bellsouth.net

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We apologise for the non-availability of the OPDX Bulletin and substitute with

the ARRL DX News

ARLD033 DX news - excerpts

GHANA, 9G. Scott AC3A will be QRV as 9G5SE from Accra from Aug 5 to 12.
Activity will be on 40 to 6M.

CROATIA, 9A. Peter HA9MDP and Tamas HG9MET are QRV as 9A/homecalls from Pasman Island IOTA EU-170 and possibly others depending on the weather until Augt 13. Activity is on 80 to 2M. They will also participate in the Alps Adriatic VHF contest as 9A/HG9VHF from JN73qw. QSL to home calls.

MOZAMBIQUE, C9. A group of German and British operators will be QRV as C94KF from Inhacamba Island IOTA AF-103 from Aug 5 to 14. They will operate two stations on 40 to 10M using CW and SSB. They will be active as either C94RF or C93RF while on the mainland. QSL via G3OCA.

ECUADOR, HC. A group of Ecuadorian operators will be QRV as HD4DX from Puerto Lopez on the Manabi coast from Aug 5 to 13 during the Whales Festival. Activity will be on 80 to 10M using CW SSB RTTY SSTV PSK and Satellite. QSL direct via EA5KB.

DOMINICAN REPUBLIC, HI. Mark KB2MS is QRV as HI3/KB2MS from Puerto Plata IOTA NA-096 til Aug 23. Activity is on all bands except 160M.
QSL direct to home call.

BELGIUM, ON. Special event station ON6BDC will be QRV from Aug 5 to 8 to commemorate the Aug 8 1956 mine disaster at Bois du Cazier in Marcinelle. Activity will be on 40 and 20M using SSB from 0700 to 1200z. QSL via bureau.

DENMARK, OZ. Jens DL8WOW will be QRV as OZ/DL8WOW from Bornholm Island IOTA EU-030 from Aug 7 to 17. Activity will be on 40 to 10meters using mainly CW and QRP power at 5 watts. QSL to home call. Meanwhile Michael DL3FCG will be QRV as OZ/DL3FCG from Romo Island IOTA EU-125 Aug 5 to 19 using CW and SSB. QSL to home call.

DODECANESE, SV5. Giannis SV5FRI will be QRV from Symi Island from Aug 6 to 19. Activity will be on 80 to 10M using CW and SSB. QSL direct to home call.

CANADA, VE. Kevin WD0AAV will be QRV as WD0AVV/VYO from Iqaluit Nunavut Aug 14 to 18. Activity will be on 40/10 using primarily CW. QSL to home call.

MONTENEGRO, YU. Toma YU1AB and Emin T91S are QRV as YU6/YU1AB and YU6/DK4ES respectively til Aug 10. QSL via YU1AB.

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We also add the 425 DX NEWS No 796 - excerpts

4L. Eugene UX3MR reports he will operate SSB CW and RTTY on 10-80M as 4L/UX3MR from Georgia 10-31 Aug. He will also try to activate a lighthouse (GEO-004). QSL via home call, direct or bureau.

9H. Francesco IK0FVC reports he will operate holiday style as 9H3FV from Malta on 1-11 Aug.

CT. Luis/CT1EEQ Arlindo/CT1EGW and Carlos/CT1END will be active on 90-10M SSB from Culatra Island (EU-145) 12-13 Aug. QSL via home calls. Further information will be available at http://ahrap.no.sapo.pt

CX. The Centro Radioaficionados de Rocha (CX1TA) will participate in the International Lighthouse/Lightship Weekend 19-20 Aug from the Lighthouse at Cabo Santa Maria ARLHS URU-004. Look for CV8T to be aired on 160 80 40 20 15 10 and 2M SSB CW AM FM and BPSK31. QSL via CX1TA PO Box 29 27000 Rocha Uruguay).

GM. Alex GM0DHZ and Andre GM3VLB are active from Skye and other EU-008 islands (Soay Wiay, Flodigarry, S. Rona) til 8 Aug.

I. ARI Frascati will activate special call IY0ORP on 11-12 Aug to commemorate the microwave test carried out by Guglielmo Marconi in 1932 between Capo Figari (Sardinia) and Rocca di Papa (Rome). QSL via I0DJV direct or bureau.

SV. Enrico IZ5CML reports he will operate SSB on 10-40M as SV8/IZ5CML from Antiparos Island EU-067 6-20 Aug. QSL to home call via bureau.

SV. SV2AYT SV2AOB SV2BET SV0EG and SV2CNB will operate on 80-2M mainly SSB as SX8AYT from a few islands in the EU-049 IOTA group 12/27 Augt. On the islands of Lemnos and Agios Efstratios they will be joined by local operators SV8CRL and SV8BUZ respectively. QSL SX8AYT via SV2AYT. The web site for the operation is at http://www.sx8ayt.com/

TF. Sergio IZ6BRN will operate SSB and possibly RTTY as TF6/IZ6BRN from Egilssadir Iceland EU-021 8-12 Aug. QSL via IZ8CLM direct or bureau.

TK. Stefano IK5PWQ reports he will be active holiday style as TK/IK5PWQ from Corsica EU-014 7-19 Aug. He will operate CW and SSB on the HF bands and will also be active on 20M as TK/IK5PWQ/P from the Sanguinaires Islands EU-104. QSL via home call.

UA. Look for UE3YAR/p to be aired on 11-13 Aug to celebrate the Russian Air Force Day for the AFARU (Armed Forces Amateur Radio Union) activity programme. QSL direct to RV3YR.

UA-ssh. Oleg R1ANF is currently active as R1ANF/p from Priroda Refuge on King George Island South Shetlands AN-010. He should remain there for another couple of weeks. QSL via RK1PWA.

VU. Special event station VU13IARU will be active til 11 Aug for the 13th IARU Region 3 Conference to be held in Bangalore on 7-11 Aug. The person in charge of the station is Mr A R Prathap Kumar VU2POP vu2pop at hotmail.com.

YB. Hotang YC0IEM will operate as YC0IEM/7 from Borneo OC-088 7-24 Aug. QSL via IZ8CCW, direct or bureau.

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The Society can be contacted in the following ways
To Pat VK2JPA via patleeper at optusnet.com.au or
Col VK2CTD via ctdavies at bigpond.net.au or
you can drop a line to PO Box 93 Toongabbie NSW 2146.
73’s from Pat VK2JPA broadcast Officer
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END OF BROADCAST....PSE STANDBY FOR CALL BACKS TAKEN BY VK2CTD.

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